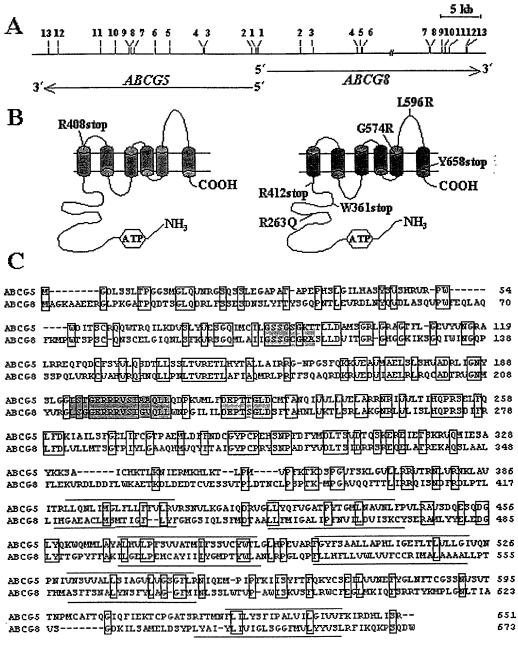
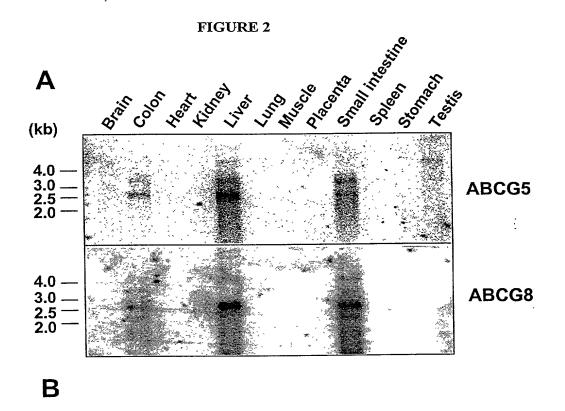
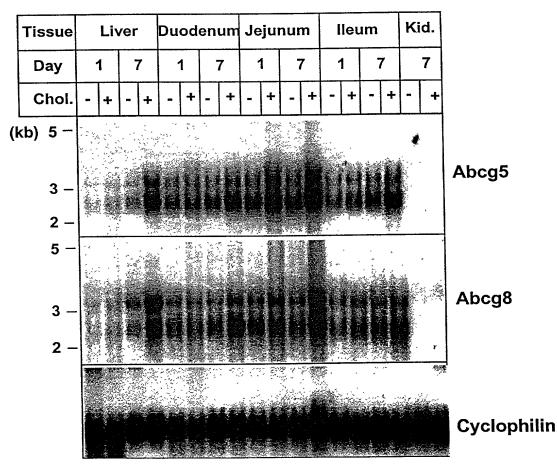
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### FIGURE 1



Walker & Hotif Walker B Hotif Segrature - Hotif ABCGS Putative Transmembrane Domain ABCGS Putative Transmembrane Domain Atty. Docket No.: 18781-007320
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#### FIGURE 3

A. ABCG8 exon 2 (reverse strand) thru ABCG5 exon 2 (forward strand)

ac<u>CTGGTAGGTGAGATCTCTGACCTCCAGAGTGTTTGGACTGACCACTGTAGGTGAAGTACAGACTGTTGTCACTTTCCGA</u>  $\underline{\tt GGAGAACAAGCTGTCCTGGAGGCC} {\tt ctgctgggagacatgtagtcaatgtgtaagggtcacatgcagagagcgccttcccc}$  ${\tt tgcttttaatgtttgagcatcaccccagctccattctctgatctttactaaaaaataataatagcaatggcttaaactat}$ ggtcaccccgctgtgcttcagaacactagaatttatgtctcccatctcattttgatgcccaggatctgactgccaaccat gtgtgtgtgtgtgtgtgtgtgtggggaatcaaatccatagcatcaaatatactaggccaatcatgatactgacagaaccat agcaacacatccggggtccctggggtttcttgttttcaaatcaattatctttaggagagatcttagttacttgcatgggc ATATCTATTCGGCTGACACATTAATCAGCACGACTGTCAGAACATCATTTGAATCTGTGACAGGTGACACCCTAAAAAAG TGAAAGCGGGTTTATTTGTAGGTAACTAGTGTGGCTCCTGCTGGGCTACAATGTAACGTCTCCTTGTATTAACTTCTGGT TACATTCCTGAGTCAGAagcacagacacatgggaaaatccagagggcacaaaaagggagaaatgtgcagaaaacagtggt gcctggtggggacatatatggtaagtctttggcccaaggcacatacctggccctctgttgacccctgcagacaccatctc atctgcctctgcttagagtccaggctttcctatccctgtctgcagtgcgaggagctgtagaccatgggtcctggcgccct ggtactcagtgccagaattccctgtgagatagccctgatctcctccttccaggccatcactgagtatgggtagtgc cggtctctgtgaagacctgactcgaatatgagtagaaagacggtgtggccgctatgtgagttctttgtagagtgagatgc gggcatatcagtgtcattgtctccccccaccccaagccctgcagttgtcagtggcgggccatcacagggcacctacaac agtgggacctcacagaaggaacttgtaggtggcaggacctaggcacacttttgaatatagaattctgacagctcattgcc tttttagctgtaatctgaagggcaaaagccccacaccaccactgattttatatcctactcaggaagggagcatcaaag acgtagaaggagttatttccccatagacgtctgcctcatggggattctgacagcagagttgcctgttgctgtggtagtag gattggtcaatctcaggcaatcctgtctcccctagaacaggggactgaggcgtccctgttgaatgtggccatcctgttct gccttctgcttcaaatcctgcccacaactcgagtcaaaggccatttatcaagcaaatgtttctccggttaatgaggaagg acacaattctqacqctcccaaacaagcgatcactatcacagccagtgtatttgtaaactgcctgaaaccaatgtgtagcc atagaaatattttcttgtaataagagaaaaaaataaatcgtgggctgggggaatggctcagttgtagaacacttggttca gaaagaggaaagtggccctcagagggatttatgacctgacttcccagccgtgagccctgccctttcagtgaggtttctct aagcagagcctcaactctacaaggtagcgagatgcctcaacccctccttggcatttgttcctgacacctgccctttctct  $\verb|ctctttcctcctggttctcaccaaacaatgccaaggactaacttactacataagtatggcaagcgtagcgatcctgttgt|$ tacctccccgctgtctcttgactaccactgagattcttggtctgacagtcacatgggtcaacgctctgtgatggaatgt catttggaaaacatcaatcccggtcattcacaggagcgtgctgtcgtggGGAAGTGACCTCAGAGGTCTCCTGGCTCCTG  ${\tt AGACTGTTCCCCTC} agac cat caa cactgaggaga cagggccctgccgcccatttccattctacttgaagtccaggtgg$  $\underline{\mathtt{CATCCTGAAGTACAGTCCCATTCCACAGCTGGGTCTCTTCTTTGGTTTTCTCAGCCAT}} \mathtt{gaccagtgctgtttgtgccctt}$ tqtqtqqcctccctqctqttqqqctctctctqtctttqctccttagaqctqqqqcacctqaqccctcctctqtqccaqc CttTCTCCCAGCATTCCTYTCTGGCAAACACTTCCTATAAACACACCGTGTGTTCTGCCTATTGTCGAGATAAGGACACT  ${\tt CTGGCTAAAGGTACATCAGATAATGGCATCGTTGGCCAAattggtgaactgttatctcacgaggattccagggctgggta}$ ggatcggacagggcactcccattggctcctcagttaaagctgccctggagccggacaggccactagaaaattcacttgca  $\verb|tttgcttcctgctagcc| \verb|ATGGGTGAGCTGCCCTTTCTGAGTCCAGAGGGAGCCAGAGGGCCTCACATCAACAGAGGGTCT| \\$  $\underline{CTGAGCTCCTGGAGCAAGGTTCGGTCACGGGCACAGAGGCTCGGCACAGCTTAGGTGTCCTGCATGTGTCCTACAGCGT}$ ggttgtctgtccagcagatcagggtgaaagtggacagtctgtaacaacagtgagtcgttcctcctcctcctcctgcgcag  $\verb|ctcgcccaccacctgtcctgtgtagatggagaaggctcggagagtgggggtgctgggggcacaaaatggaatgaacactg|$ ctgaaggaatgcagggttcacttcaagaagaaagcagtgtgcaggtgtaccatctcccagtcagagacccagtaatcaga gcagctaatgggaggcatgctccttgggtggtggccaacttgtcattatacctccaaggacaacagagtggtacataagg ctaaaacagagttgtcaacctgtccaggggcaactggggtaggggtaggggtgggagcaggggtctggcaccttccaggac gtaagtgcctggggggscsggggctcctgtacttctaaggcaggctctgggaggctttggctcygtctaagcacaatgtt  ${\tt taagaagtragtttaagttgtagagaggcagccatgcatttggcatttgaatacaatctggtgacttgtctggccaa}$ tagaacctagtaccaaagtgaaatcttgaggaaaatccctggaaagagtggaaagtcctgcctaacacgtaagtgccttc ${\tt cccag} ccca {\tt aat} {\tt gtatt} {\tt ccc} {\tt ccct} {\tt cc$ tgtggtgcagggaggcctaggaggctaagagcccaggtcaagttgactctgttggtcttcctgtggagttccttcgaag Atty. Docket No.: 18781-007320
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## FIGURE 3 (CONTINUED)

The 4 exons are underlined and the conserved regions are in uppercase. The sequence ends in intron 2 of ABCG5 and is in the following order:

```
ABCG8 exon 2 (reverse strand)
ABCG8 intron 1 (reverse strand)
ABCG8 exon 1 (reverse strand)
```

#### gap between genes

ABCG5	exon 1	(forward	strand)	
ABCG5	intron 1	(forward	strand)	
ABCG5	exon 2	(forward	strand)	
ABCG5	intron 2	(forward	strand,	partial)

# B. Sequence Between ABCG5 and ABCG8 Containing the Control Sequences

gaccagtgctgtttgtgccctttgtgtggcctcccctgctgttgggctctctctgttttgctccttagagctggggcacctgagcctcctctctgtgtgcacagccttttgtgcccttagagccggagcacctgagccctcctctgtgtgcagcctttCTCCCAGCATTCCTYTCTGGCAAACACTTCCTATAAACACCGTGTGTTCTGCCTATTGTCGAGATAAGGACACTCTGGCTAAAGGTACATCAGATAATGGCATCGTTGGCCAAattggtgaactgttatctcacgaggattccagggctgggtaggatcggacagggcactcccttggctcctcagttaaagctgccctggagccggacaggccactagaaaattcacttgcatttgcttcctgctagcc

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